EXHIBIT 5 to

REQUEST FOR RECONSIDERATION DATED APRIL 7, 2010



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(10) Patent No.: US 7,452,547 B2 (45) Date of Patent: Nov. 18, 2008

Second PRODUCT FOR TREATING THE SKIN COMPRISING A POLYMAINE MICROCAPSULE WALL AND A SKIN LIGHTERNING AGENT Compress Co	(54)	PRODUC	TO TOO IN WINDS A STREET OF THE PARTY OF THE				
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Alain Khaiat, Mulan Count (SC) Assignee: Johnsonak-Johnson Consumer Co., Inc., Stillman, NI (US) (*) Notice: Subject to any disclaimer, the term of this pitent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. (21) Appl. No.: 10/814/993 (22) Filed: Mar. 31, 2004 (25) Prior Publication Data US 2005/022683 Al Oct. 13, 2005 (65) Prior Publication Data US 2005/022683 Al Oct. 13, 2005 (75) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/993 (75) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/993 (75) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/993 (75) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/993 (75) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (75) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Appl. No.: 10/814/914 (70) Appl. No.: 10/814/914 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. CLIB 33:0 (70) Appl. No.: 10/814/914 (70) Int. Cl. Appl. No.: 10/814/914				2002/0	197289 A1	12/2002	Chovalier et al.
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thereof.

ing a microcapsule wall surrounding a liquid core, and the use 16 Claims, No Drawings

The present invention features a product including a waterinsoluble substrate and a plurality of microcapsules compris-

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COMPRISING A POLYAMINE
MICROCAPSULE WALL AND A SKIN
LIGHTENING AGENT

FIELD OF THE INVENTION

The present invention relates to a product and the uses thereof to treat skin.

BACKGROUND OF THE INVENTION

Products such as cleansers and moisturizes formulated with vitamins and other skin benefit agents have been used for 15 many years to treat the skin. Employing a water-insoluble sustrates such as wipe or mask to assis in the process of cleansing, moisturizing and delivery of certain bearfit agents to the skin is also known. For example, consumers typically use hydrating findel mask products for treatment of various 20 skin conditions as well as to improve the physical appearance and texture of the facil skin. This can be accomplished while the user relaxes, such as in a prone position, while the mask contacts the skin of the face and provide shondits thereto.

Unfortunately, such products can be limited in their ability to provide multiple benefits to the subject as benefit agents can be incompatible with one another, resulting in premature degradation or poor shelf stability. Furthermore, the multiple benefit agents can be difficult or impossible to incorporate so into the mask in a form that is aesthetically pleasing to the

It is also particularly challenging to provide a facial mask product that is able to impart an appealing change in color tone to the skin or impart an appealing change in color tone to the skin or impart improved color/tene uniformity that 35 manifests in a particularly skon period of time. Thus, it is especially difficult to design product, such as a facial mask, that provides fast-onest benefits related to color/tone in addition to other skin benefits such stone relating to mail-scae, shine control, microbial control, amit-inflammation, anti-social dation, skin-fining, anti-writher, semong other skin benefits.

Therefore, there is a need for a product that is capable of overcoming one or more of the above-mentioned drawbacks.

SUMMARY OF THE INVENTION

The present invention features a product including a waterinsoluble substrate and a plurality of microcapsules comprising a microcapsule wall surrounding a liquid core, and the use thereof.

DETAILED DESCRIPTION OF THE INVENTION

It is believed that one of ordinary skill in the art can, based 19 upon the description herein, utilize the present invention to its fullest actual. The following specific embodinents of the invention are to be construed as merely illustrative, and not limitative of the remainder of the disclosure in any way whatsoever.

Unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which the invention belongs. Also, all publications, patent applications, patents, and other references mentioned herein are incorporated by as reference. Whenever used, any percentage is weight by weight (8 w/w) unless otherwise indicated.

2

Product
The product of the present invention includes at least one water-insoluble substate. The product may also include a higadi timpengant to The (just improgrant may be present in a sweight ratio to the water-insoluble substate that is greater than about 50%, such as product includes a plurality of indications of the product includes a plurality of including a micropapel wall surrounding a fiquid

Water-Insoluble Substrate

The product of the present invention includes a water-insoluble substrate, By "water-insoluble" is unsent that the 5 substate, upon immersion in distilled water at 25° C., does not readily dissolve in or readily break apart. Under such immersion, while portions of the water-insoluble substrate may be lecabable or readily soluble in the distilled water, at least an other portion of the water-insoluble substrate remains placed, for the production may be readily manipulated to the product of the production of the control of the control of the invention, the water-insoluble substrate such control of the invention, the water-insoluble substrate any, however, be dissintegrated and/or dissolved alowly in the distilled water, i.e., over a period of several boars up to several distilled water.

A wide variety of materials can be used as the water-insoluble substrate scanning of sultable substrates include, but are not limited to, throus substrates such as substrates including or formed from non-woven fibers, woven fibers, lydro-entangied fibers, or air-cranagied fibers. The water-insoluble substrate may include natural syunges, synthetic sponges, and polymeric netted meshes.

The water-insofuble substrate may be formed to retain a liquid impregnate (such as by shorting the liquid impregnate samong, along, and/or between fibers comprising the water-insofuble substrate) for a period of time at least as long as from when the product is send by a consumer (i.e., a shelf surge period). In this embodiment of the invention, during this shelf storage period he water-insofuble abstrates should generally mathematically instructions of the state of the shelf surgest of the water-insofuble substrates should generally mathematically instruction of the state of the sta

The water-insoluble substrate may be flushable. As used 4s herein, by "flushable" is meant that the substrate will pass through at least 10 feet of waste pipe in two toilet flushes. The material may also be biodegradable.

in one embodiment of the invention, the substrate includes a non-woven material. By "non-woven" is meant that the substrate, or a layer of the substrate, is comprised of Disease. The substrate, are not woven into a fabric but rather are formed into a short, and only eigending the substrate. The fibers can either be random (i.e., randomly eigend) or they can be carded (i.e., combed to be oriented in pnamity one direction. Purchemore, the non-woven substrate can be composed of a combination of layers of random and earded fibers).

Non-woven substrates may be comprised of a writery of natural and/or synchetic materials. By "natural" it is seen at that the materials are derived from plants, mirrously, morest, or proporducts of plants, naturals, and meets. By "synchetics" it is meant that the materials are obtained primarily from various manusanea materials for from natural naterials, which have been further albrech. Non-limiting examples of natural materials and the present invention are silk libers, and cellitained filters (such as word libers, cannel last filters) and cellitained filters (such as word libers, cannel last filters) and cellitained in the control of the present invention of the plants of the plants. Examples of synthetic materials include, but are not limited to, those selected from the group containing sectate fibers, scrytic fibers, certifices, certifices, cotton fibers, modacrylic fibers, polyamide fibers, polyester fibers, polyorized showly fibers, payon fibers, polyured aborbol fibers, rayon fibers, polyured thane foam, and mixtures thereon.

Substrates made from one one more of the natural and synthetic materials useful in the present invention can be obtained from a wide writely of commercial sources such as Freudenberg & Co. (Durham, N.C. URA), BBA Nonsovenes (Nastiville, Tenn. USA), PGI Nonwovenes (North Charleston, S.C. USA), Buckeye Technologie-Wulkisoff (Memphis, Tenn. USA), Sansho Shigoy K.K. (Tous City, Kouchi, Japan), and Fort James Orponition (Deerfield, III. USA).

Methods of moking non-woven substrates are also well 15 known in the art. Such methods include, but are not limited to, air-laying, water-laying, melt-blowing, spin-bonding, or cerding processes. The resulting abbutuse, regardless of its method of production or composition, is then generally subjected to at least one of several types of bonding, operations to to another the individual libers together to form a self-avastaining web. The non-woven substrate one be prepared by a variety of processes including laydro-entanglement, thermally bonding, chemical bonding and combinations of those processes. Moreover, the substrates can have a single layer or multiple layers. In addition, a multi-layered arbstrate can include it layers in complete the continuous constraints of layers in constitute and the constitute of layers in constitute and the constraints of layers in constitute and the constraints of layers in constitute and the constitute of layers in constitute and the constitute of layers in constitute and layers layers and layers

Strength or firmness of the nea-woven unsterial may be a destrained articleur. This can be achieved, for example, by the addition of binding materials, such as wet strongth resins, or the material may be made of polymer binder continge, stable fibres, e.g. based on cotton, wool, linen and the like Examples of wet strength resins include, but are not limited to, viryl acetate-ethylene (VAE) and ethylene-vinyl chloride 3C (EVCL) Airface cumbision (Air Products, Lehigh, Pa.), Rhoplex 75-94 enryls inder (Rohm and Hass, Philade-bhia), Pa.), and Ethylene-vinyl acetate (EVA) emulsion (DUR-C-SET10s by National Starch Chemicals, Bridgewater, NJ.) The amount of binding unsterial in the substrate may range from about 95 to a boat 270s, by weight, of the substrates

Non-woven materials of increased strength can also be bottained by using the so-called gruntace or hydro-entanglement technique. In this technique, the individual fibers are twisted together so that an acceptable strength or firmness is obtained without the need to use binding materials. The advantage of the latter technique is the excellent softness of the non-waven material.

The basis weight of the water-insoluble substrate may range from about 10 granus per square meter (gsm) to about 100 gsm, such as between about 30 gsm and about 70 gsm. The water-insoluble substrate may have an average thickness that is less than about 5 mm, such as between about 0.1 mm 55 and about 1 mm.

In one embodiment of the invention, the non-woven notesinal includes or is made from a supersheavehar polymer. For the purposes of the present invention, the term "supersheaveh best polymer," feets to meterials which are capable of ea absorbing and retaining at least about 10 times their weight in water under a O.5 pit pressure. The supershardent polymer particles of the invention may be inorganic or organic crosslatified hydrophilite polymers, such as polywity ilentical polymers, and the proposition of the proposition of the sandthing turn and other motivatal barms to he art of these deep sandthing turn, and other motivatal barms to the art of these deep sandthing turn, and other motivatal barms to the art of these deep sandthing turn, and other motivatal barms to the art of these deep sandthing turn, and other motivatal barms to the art of these deep sandthing turn, and other motivatal barms to the art of these deep sandthing turn, and other motivatal barms to the art of the other sandthing turn, and other motivatal barms to the art of the other sandthing turn, and other motivatal barms to the art of the other sandthing turns and other motivatal barms to the art of the other sandthing turns and other motivatal barms to the art of the other sandthing turns and the sandthing turns are sandthing to the sandthing turns and the sandthing turns are sandthing turns and the sandthing turns are sandthing turns and turns are sandthing turns and turns are sandthing turns and turns are sandthing turns are sandthing turns and turns are sandthing turns are sandthing turns are sandthing turns and turns are sandthing turns are sandthing turns are sandthing turns and turns are sandthing t

Additives may also be added in order to increase the softness of the substrates. Examples of such additives include, but are not limited to, polyols such as glyerot, propylene glycol and polyethylene glycol, phthalate derivatives, citric esters, surfactuats such as polyoxyethylene (20) sorbitan esters, and acetylated monglycerides.

Sensory attributes may also be incorporated to the insoluble non-woven substrates. Examples of such sensory attributes include, but are not limited to color, texture, pattern, and embossing of the substrate.

The water-insoluble substrate when laid flat, may cover an area that is from about 100 cm² to about 1000 cm², such as from about 200 cm² to about 500 cm², such as between about 200 cm² to about 360 cm².

The water-insoluble substrate may have a size and shape such that it covers the face of a human user to ficilitate placing the water-insoluble substrate about the face of the marriage that the marriage face are mouth, nose, and/or eyes of the user. Alternatively, the water-insoluble substrate may have openings for a mouth, nose, and/or eyes of the isser. Alternatively, the water-insoluble insolute may have no such openings, such a configuration without openings may be useful fur metal-contented to the timestic in which the water-insoluble insolution is a superior of the timestic in which the variet insoluble is skin or if the water-insoluble substrate is intended to be used as wipe. The water-insoluble substrate my have various shapes, such as an angular shape (e.g., rectangular) or an arcute shape such as circular or oval.

In one embodiment of the invention, the product includes a plurality of water-insoluble substrates of different shapes, lp. one embodiment of the invention, the product includes a first water-insoluble substrate and a second water-insoluble substrate. The first water-insoluble substrate is shaped for application onto the forehead and the second water-jusoluble substrate is shaped for application proximate to the mouth, such as areas above and/or below the lips, the chin, and/or the cheeks. In one embodiment of the invention, the first waterinsoluble substrate is also applied to the nose region of the face. The first water-insoluble substrate may have a surface area of from about 100 cm2 to about 200 cm2, such as from about 120 cm2 to about 160 cm2 and the second water-insoluble substrate has a surface area of from about 100 cm2 to about 300 cm2, such as from about 150 cm2 to about 250 cm2. In one embodiment of the invention, the water-insoluble substrate has a low stiffness such that it may, for example, readily 45 drape over or conform to the face or other body parts of the

Liquid Impregnate

The product may include a liquid impregnate, such as may be used to moisten the water-insoluble substrate. In one embodiment of the invention, the liquid impregnate is present in an amount of at least about 5% by weight of the weight of the water-insoluble substrate. In other words, if one were to separate the impregnate from the water-insoluble substrate, the ratio of the weight of liquid impregnate removed to the weight of the water-insoluble substrate is greater than about 5%. By having the liquid impregnate present in at least about this ratio, the liquid impregnate may be readily transferred to skin placed in contact with the water-insoluble substrate. To further enhance the transfer of the liquid impregnate to the skin of the user, such as for a hydrating facial mask, the liquid impregnate may be present in a weight ratio to the waterinsoluble substrate that greater than about 50%, such as greater than about 65%, such as between about 65% to about

In another embodiment of the invention, the liquid impregnate is present in a ratio that is less than about 5% by weight of the weight of the water-insulable substrate or containing no liquid impregnate. Such products may be used for applications where a liquid is applied to them (e.g., water or a liquid skin care product such as a toner or cleanser) prior to application to the skin such as a cleansing wip.

The liquid impregnate may include an equeous phase, an oily/hydrophobic phase, a gel phase, or a mixture of these phases. Microcapusles (described below) may be dispersed within one or more of these phases. In one embodiment, the microcapsules are dispersed in an aqueous phase.

In one embodiment, the liquid impregante has a viscosity that is less than about 10,000 centipoise (eps), when measured using a Brookfield digital viscometer, Model DV-III-version 5.2 according to the operating instructions set forth in Manual No. M/92-161-H895, such as lawing a viscosity less 13 may 100 may

The liquid impregnate may include water, incorpopal eloclon, I glycois, hydro-elocibols, plycorin, cisters, as well as humectants, emolifents, penetration enhancers, sensory agents such as method and methyl locately, chelating agents such as EDTA), proservoitives such as perabeas, and other conventional cosmetic adjuvants, such as dyes, openifiers ²⁵ (e.g., titanhum dioxide and zinc oxide), pigments, and finagrances. Furthermore, the liquid impregnate may include one or more benefits agents as discussed below in the section emittled, "Benefit Agents."

Microcapsules

The product includes a plurality of microcapsules. The microcapsules may be distributed (e.g., uniformly) about the water-insoluble substrate to facilitate contact with a user's skin. The microcapsules have a microcapsule sulfave a microcapsule sulfave a microcapsule walf is generally counfigured such that the walf will break, encek, or repture under an applied stress that is relatively low. For example, the microcapsule walf may be readily fractureable into one or more fragments upon providing a pressure of less than about 1 of the control of the microcapsule walf may be readily fractureable into one or more fragments upon providing a pressure of less than about 1 of 5 psi and about 1 psi. Once the microcapsule walf has broken, cracked or ruptured, the liquid core is capable of being released.

The microcapeule wall is generally formed from a material that is substantially insoluble in the liquid core and substantially insoluble in the liquid core and substantially insoluble in the liquid impregnate (if present). By "substantially insoluble" it is meant that the microcapsule wall is generally resistant to dissolution or salvation from the fliquid impregnate or the liquid core during a period of "shelf-stor-god" time (e.g., from about 6 months or greater). During this period of time, the microcapsule wall generally mathsias its shifty to contain the fliquid core.

For example, for embodiments of the invention in which the liquid impregnate includes a substantial amount of water, 55 the microcrassule wall is substantially insoluble in water.

The microcapsule wall may be formed from or include a water-insoluble polymers, such as an inorganic polymer (e.g. a sol-gel derived sitilicy or a water-insoluble organic polymers. Exemplary water-insoluble organic polymers include 60 polyanimes, polyacrylates, polysaccharides, cyclodoxtrins, and combinations thereof.

Water-insoluble organic polymens of perticular note are thermoset polymens, including polymnines such as those based upon or including monomers such as melamine, urea, 65 and combinations thereof. Suitable polymers include, for example, melamine-formaldehyde resins and urea-formalde-

hyde resias. Such microcapsules are often referred to as "auchcopolas" microcapsules. One such example is polyovaryene melamine turas (PMID), commercially revaliable as Pontenza Dimethicone from Reed-Pacific of Dural, Austrialia. Another such example is PMID Microcapsules (22 Micron Energosulated Mineral Ol Hand Jojoba Ol), available from 3M Company of St. Paul, Minn. Such olymers any be readily formed into microcapsule walls surreunding a liquid core. The microcapsule walls formed therefrom are highly storage stable, yet sufficiently brittle such that they fracture upon user to relatively low stresses.

The microcopeoles may have an average particle size that is an ange from about 1 microu to about 1000 micros, such as between about 100 micros to about 500 micros. By "norticle size", it is meant the length of an inaginary little or connects the furthest points on the outer surface of the particle. Furthermore, the microcapeut wells may have a thickness in a range from about 0.01 micross to about 1 micros, such as between about 0.1 micross about 0.5 microsom. The microcapeule walls may be a single-layered or multi-layered and may be smooth or fregular in shape.

The microcapsules may be firmed from methods such as useful polynogration, complex conservation, or complex precipitation. Examples of forming aminoplast microcapsules auromating a liquid core and dispersions of meth microcapsules are set forth in UK Patent application 2073122A, PCT patent application purple WO 9928396, and PCT patent application purples WO 9928396, and PCT patent application purples with miner WO 000704340. The deep regime and other "internal phases" (j.e., liquid cores) discussed in these above references may be readily modified by substituting mineral oil and/erro other constituents as discussed below in the section emitled "Liquid Core."

Liquid Core

The microcapsules include a microcapsule well surrounding a liquid core. In one embodiment of the invention, the liquid core is hydrophobic or includes predominantly hydrophobic materials. For example, the liquid core may include a hydrophobic vehicle such as moisturizing oil such as mineral oil or other oil or esters that provide good wetting, spreading, emolliency and/or moisture barrier properties to the skin. Suitable examples of such hydrophobic vehicles include those disclosed in the International Cosmetic Dictionary and Handbook (CTFA, Ninth Edition 2001) under "Skin-Conditioning Agents-Emollient on pages 2930-36. Notable nonlimiting examples of hydrophobic vehicles include cetyl alcohol, dimethicone, mineral oil, isohexadecane, isopropyl myristate, lanolin, myristyl myristate, PEG-40 hydrogenated castor oil, phytosterol, shes butter, and combinations thereof, The hydrophobic vehicle may have a specific gravity that is less than 1, for example, in a range from about 0.7 to about 0.95, such as between about 0.80 and about 0.95.

Other suitable ingredients for use in the liquid core include volatile fingrant citis, or various skin heaefit species (see section below entitled, Benefit Agents), particularly those benefit agents that are phydophobic, compatible with other components of the liquid core, and/or unstable with respect to content with components that may be present in the liquid longers of the content of the components that the process of the content of t

Benefit Agents

In one embodiment of the invention, the water-insoluble substrate include one or more benefit agents. What is meant by an "benefit agent" is a compound (e.g., a synthetic compound or a compound isolated from a natural source) that has a cosmetic or therapeutic effect on the skin including, but not limited to, lightening agents, darkening agents such as selftunning agents, anti-acne agents, shine control agents, antimicrobial agents, anti-inflammatory agents, antifungals, antiparasite agents, external analgesics, sunscreens, 10 photoprotectors, antioxidants, kerntolytic agents, moisturizers, nutrients, vitamins, energy enhancers, anti-perspiration agents, astringents, decdorants, hair growth inhibitors, anti hair-loss agents, hair growth promoters, hair removers, skinfirming agents, anti-callous agents, anti-aging agents such as 15 anti-wrinkle agents, skin conditioning agents, allergy inhibitors, antiseptics, external analgesics, antiprorities, antihistamines, antimiectives, anticholinergies, vasoconstrictors, vasodilators, wound-healing promoters, peptides, polypeptides, proteins, deodorants, anti-perspirants, film-forming 20 polymers, counterirritants, enzymes, enzyme inhibitors, poison ivy treatment agents, poison oak treatment agent, burn treatment agents; anti-diaper rash treatment agents; prickly heat agents; herbal extracts; flavenoids; sensates; anti-oxidants, kerutolytics; sunscreens; and anti-edema agents; and 25 combinations thereof.

In one embodiment of the invention, the agent is selected from, but not limited to, hydroxy acids, benzoyl peroxide, sulfur resorcinol, ascorbic acid and its derivatives, D-panthonol, hydroquinone, octyl methoxycinnimate, titanium 30 dinxide, octyl salicylate, homosalate, avobenzone, polyphenolics, carotenoids, free radical scavengers, spin traps, retinoids such as retinol and retinyl palmitate, ceramides, polyunsaturated fatty soids, essential fatty acids, enzymes, enzyme inhibitors, minerals, hormones such as estrogens, steroids as such as hydrocortisone, 2-dimethylaminoctlasnol, copper salts such as copper chloride, peptides containing copper, coenzyme Q10, lipoic acid, amino acids such a proline and tyrosine, lipo amino acids such as capryloyl glycine and sarcosine, vitamins, factobionic acid, acetyl-coenzyme A, nia- 40 cin, riboflavin, thiamin, ribose, electron transporters such as NADH and FADH2, and other botanical extracts, and salt. esters, and derivatives thereof. The benefit agent will typically be present in the composition or product of the invention in an amount of from about 0.001% to about 20% by weight 45 of the fiquid impregnate or fiquid core, e.g., about 0.01% to about 10% such as about 0.1% to about 5%

Examples of vitemins include, but are not limited to, vitamin A, a vitamin B such as vitamin B3, vitamin B5, and vitamin B12, vitamin C, vitamin K, and vitamin E, and salts, so esters, and derivatives thereof. (e.g., retinyl palmitate, ascorbyl acetate, and tocopherol acetate).

Examples of hydroxy acids include, but are not limited, to glycolic acid, lactic acid, mulic acid, salicylic acid, citric acid, and tartaric acid.

Examples of antioxidants include, but are not limited to, water-soluble antioxidants such as sulflyydy compounds and their derivatives (e.g., aodium metabisulfite and Ni-acetyl-cysteine), lipics seed and diltydrolipion exid, resventrol, lactoferrin, and ascorbie acid and ascorbie acid derivatives (e.g., ascorbie acid glucoside, magnesium ascorby) phosphate, and ascorby platiniste and ascorby) polyperficie). Gil-solube antioxidants suitable for use in the cumpositions of this invention include, but are not limited to, butylated hydroxytoleuro-reinfords (e.g., recorbierola and retiruly plantiate), es tocopherols (e.g., tocopherol acetate), tocorbienols, and belquinone. Matural extracts containing autoxidators suitable

for use in the compositions of this invention, include, but not limited to, extracts containing flavonoids and isofnvonoids and their derivatives (e.g., genistein and diadzein), extracts containing resveratrol and the like. Examples of such natural extracts include grape seed, green tea, pine bark, and propolis.

Examples of botanical extracts include, but are not limited to legimes such as Soy, Aloe Vers, Feverfew, Hedychium, Rhubath, Portulase, Codar Tere, Cinnaunon, Witch Hizzel, Dandellon, Chinese Angelica, Turneric, Giuger, Burnet, Boutstynia, Cotx Seed, and Thyne. What is meant by a "botanical extracti" is a blend of two or more compounds isolated from a plant.

In one embodiment of the invention, the water-insorbite substante designed for application on the forcehead region of the face includes, but is not limited to: oil-cumtrol agents such as tinamism disoides, acteches, benoised extracts, and tale; pore reflating agents such as alpha-bydrovy acids, beta-bytroxy acids, and earzymes, and i-sone agents such as benzoyl peroxide, safleyfile acid, irtichlorearbon, triclosar, azelaic, clindamygin, adaplasen, exprinception, socious sufficientes, reflucio acid, and avulra orientes acid, clindamygin, adaplasen, exprinception, socious sufficientes, acteches, acid, and avulra octoriol agents such as silicotres, acteches, ac

In another embodiment of the invention, the watershies obtained switches that is designed for application around the mouth region of the face includes, but is not limited to: hydracion/moisturiziona agents such a plyceria, silicone, plycoris, solicone, plycoris, solicone, plycoris, solicone, and place and

The benefit agent(s) may be placed in the liquid core, in the liquid impregnate, or in both. In one embodiment of the invention, one or more benefit agents are segregated according to hydrophilicity/hydrophobicity. For example, hydrophilic benefit agents may be in the liquid impreenate, and hydrophobic benefit agents may be within the liquid core, essentially isolated from the hydrophilic benefit agents until the microcapsules rupture. While various combinations are contemplated, under one non-limiting example, one or more benefit agents are selected from the group consisting of ascorbic acid and its derivatives, alpha-hydroxy-acids, beta-hydroxyacids, alkanolamines, proteins, enzymes, and enzyme activators, and combinations thereof are in the liquid impregnate, and one or more benefit agents are selected from the group consisting of retinoids, tocopherols, enzymes, enzyme activators, and combinations thereof are within the liquid core. In an alternative embodiment of the invention, hydrophobic benefit agents are in the liquid impregnate and hydrophilic benefit agents are within the liquid core In one embodiment of the invention, the product comprises

no one commonment of the threshoot, me product comprises an enzyme such as a lingin providase (commercially available from Rakuto Biotechnologies of Yokneam, Israel) and a suitable activator such as a peroxide (e.g., hydrogen peruxide). The enzyme and the activator may be separated by the microcapsule wall. For example, the enzyme may be included

in the liquid core and the activator may be included in the liquid impregnate. In another embodiment of the invention, the activator may be included in the liquid core and the enzyme may be include in the liquid impregnate.

Anti-acne Agent

In one embodiment of the invention, one or more of the water-inscible bestrates of the product of the present invention includes an anti-sore agent(c). What is meant by an "unit-area agent" is a drug product effective in the trends of a cene. Examples of anti-some agents include, but are not initiated to, azeibe soid, clindamyous, dasplasene, erythoxycia, sodium sulfacetamide, retinoie acid, benzoy) peroxide, sulfur, and salicylic acid.

In one embediment of the invention, the substrate includes from about 0.01 to about 50 percent, by weight, of the at least one anti-scene agonts, e.g., about 0.2 to about 30 percent, by weight, such as about 0.2 to about 15, percent, by weight, of the at least one anti-scene agent.

Other Materials

Various other materials may also be present in the liquid impregante and/or in the liquid or. These include liumentants, comilients, cerrier/encapsulation, for benefit agents (e.g., liprosmost, penteration canhences, sensory agents (e.g., menthod and mothyl loctate), chelating agents (e.g., EDTA), 32 detergents 'unfectants'self-founding agents, and preservaives (e.g., pambens). In addition, the topical compositions useful havries one contain conventional commention divinants, such as dyes, opacifiers (e.g., titanium dioxide and zine oxide), pigments, and fragmances.

Packaging of Product

In one embodiment of the invention, the product is in finished packaged form. In one embodiment, the peckage is a container such as a plastic, metal or glass tube, tub, pouch or a procession of the water-instable be understret. The product or a procession and difficult packaging such as a plastic or certain additional packaging such as a plastic or certain board box for storing one or more of such containers (e.g., a package of two to twenty individual products). Non-limiting camples of related that may be used to marinfacture such an accomplication of material that may be used to marinfacture such an and/or polyesters. In one embodiment of the invention, the package is substantially at incremenable.

In one embodiment of the invention, the product includes instructions directing the user to apply the water-included 4s substrate to the skin, such as to the lines. In one embodiment, where the product contains a liquid impregnant that it present in an amount at least about 5% by weight of the weight of the water-inschible bushtrate, the Instructions direct the use to apply the product directly to the ikin. In another embodiment where the product contains a fiquid impregnant that is present in an amount at least about 5% by weight of the weight of the arrow of the contains a fiquid impregnant that is not apply a liquid to the product prior to applications direct the use to apply a liquid to the product prior to application to the skin (e.g. to still water, a lone, or a cleanare to the product.)

In one embodiment, the instructions direct the user to apply the product for the benefit of changing the appearance of the tone and/or color of the skin.

Method of Making and Using the Product

The following is a description of a manufacturing procedure for products of the present invention. Other procedures may be used by a person of ordinary skill in the art.

A water-insoluble substrate material, such as a sheet of non-woven optionally perforated or cut to a pre-determined es size such a size a shape to fit over a human face, are used. Openings may optionally be cut out of the sheet correspond-

ing to the eyes, nose, and/or mouth. The substrate may then be folded and placed in a plastic peach housing or other suitable container.

An optional liquid impregnate may be prepared by mixing ingredients used as water and one or more benefit suggesting the form a uniform solution. Aminoplast microcapulse may be added to the liquid impregnate and uniform programs are mixing the mixing opening of the programs. The resulting liquid impregnate within the liquid impregnate. The resulting liquid impregnate having the mixing opening dispersed therein when the mixing alternatively, the impregnate may be spayed or otherwise distributed mount the substrate (e.g., such that the liquid impregnate and microcapeules dispersed therein are absorbed by the unbittenel; Per embeddiments of the invention is which there is no liquid impregnate, the capules may be dusted of dry-grayed out to the substrate.

The resulting water-insoluble substrate may be individually sealed in the housing or piaced along with other waterzo insoluble substrates together into a single housing. Multiple packaged substrates may be grouped together in an outer container, such as a box.

In one embodiment, the product includes instructions directing the user to, for example, place or position the water-inacidable substrates on the skin and leave it on the skin. For example, the instructions may direct taying the substrate incontact with the skin (e.g., the first of a period of time, such as from about a minute to about 12 minute to about 12 minute to about 12 minute to about 13 minute). The user may also be directed to massage any liquid remaining, on the skin after movoal of the water-inacidules abottute. Such massaging may facilitate imparting improved color/tone uniformity in the skin of the subsice.

As an alternative to leaving the product on the skin, the instructions may direct the user to wipe the water-insoluble substrate across the skin to hydrate and/or cleanse the skin.

Through the pressure applied to the water-insoluble substrate by contacting it with the skin, the microcapsules are broken and the contents of the microcapsules are released on the skin. Liquid impregnate may also be expressed from the water-insoluble substrate. The water-insoluble substrate may then be discarded after use.

In one embodiment of the invention, the water-insoluble substrate may be heated, (e.g., to increase the benefit received by the benefit agent and to increase the level of cumfort achieved by the user). To that end, in one embodiment of the invention, the product may include instructions directing the user to place the product in warm water or to expose the product to microwaves.

As discussed above, the microcapsules may provide mulfiple lexefils to the use; such as providing improved appearance of lone and secture of the skin (e.g. lightening, reduces reduction, allowness reduction, and echanout radiance). Intribution which is such as skin moisturizers as well one or more of a variety of benefit agents may be included in the ligal done of the unicorcepated. Such benefit agents may be protected from premature degradation that may otherwise occur from contact with, for example, noisture custide of the microcapsule. Additional benefit agents may be incorporated in the optional ligad impregnate. By separating the additional benefit agents may be incorporated benefit agents may also have enhanced shelf-subility. Purthermore, the microcapsules may be readily subilized in a low viscosity jumpergant, enhancing consumer appear. After the invention has been described in general hereinbefore, the following examples are intended to illustrate details of embodiments of the invention, without thereby 5 limiting it in any matter.

Example 1

The following is an example of a hydrating mask that includes a water-insoluble substrate for application to the face. A water-insoluble substrate for application to the face, a water-insoluble substrate formed from a sheet of nonwoven fibers, (RP956n, a heater of 55% rayon and 45% pulp, 60 grams per square meter, commercially available from Sansho Silgoo K.K. of Tosa Giy, Kouchi, Japan) was 15 were about 20 Sen 22.2 cm. Operating were entout of our of the control of the control of the state of

A liquid impregnate was prepared by mixing various ingredients to form a composition that is identical to the composition used as the liquid impregnate for NEUTROGENA Fine Fairness Mask with Vitamin C, commercially available from NEUTROGENA Corporation, Los Angeles, Calif. Amino- 25 plast microcapsules commercially available from Reed Pacific (having a mineral oil liquid core in a weight ratio to the aminoplast resin of about 4:1) were added to the liquid impregnate such that the microcapsules were present in a concentration of 5% by weight. The microcapsules were uniformly dispersed within the impregnate. About 20 grams of the liquid impregnate including the dispersed microcapsules was then poured into the housing such that the water-insoluble substrate absorbed the liquid impregnate and microcapsules. The water-insoluble substrate was removed from 35 the housing and placed upon the face of a user and allowed to remain in contact with the face for a period of time of about 15 minutes. The water-insoluble substrate was then removed and discarded and liquid remaining on the face was allowed to

The hydrating mask was evaluated for its ability to provide immediate increase in whitening immediate decrease in red-ness, and immediate decrease in aellowness. Specifically, a CRIROMAMETER CR 300 (commercially available from Minolts Co. Ltd., of Osaka, Japen) was used to determine the simmediate increase in whitening, immediate decrease in red-ness, and immediate decrease in whitening, it immediate increase in red-ness, and immediate decrease in whitening, after own cleaned with a ficial cleanure and allowed to dry. Baseline CHROMAMETER readings were performed by behavior that the control of the production of the p

subject, and taking a measurement to obtain a set of L, a, and b (colorimetric) readings. The procedure was repeated such that for each cheek, the three L, three a, and three b readings were obtained and then averaged independently for the subject to obtain an average L value for each cheek, an average a value for each cheek, and an average b value for each cheek. The hydrating mask was then applied to the face of the subject for 15 minutes, after which the mask was removed and the face was allowed to dry completely (in about 10 minutes). Three separate readings were again taken on each check, and the three L readings, three a readings, and three b readings were again separately averaged. For each cheek, a difference between the average L value before treatment with the mask and the average "L" value after treatment with the mask was determined. The two differences thus calculated for each check were then averaged, and this average was reported as immediate increase in whitening (0-pure black, 100-pure white). Similarly, the difference between the average "a" value before treatment with the mask and the average "a" value after treatment with the mask was determined for each cheek, averaged, and reported as immediate increase in redness (0-pure green, 100-pure red). Similarly, the difference between the average "b" value before treatment with the mask and the average "b" value after treatment with the mask was determined for each cheek, averaged, and renorted as immediate increase in sallowness (0 pure blue, 100 pure red). The inunediate increase in whitening, immediate decrease

The immediate increase in whitening, immediate decrease in redness, and immediate decrease in sallowness were respectively determined to be 1.43, 0.58, and -0.34 for the product of Example 1.

Comparative Example 1

A hydrating facial mask was prepared in a similar manner as for Example I, except than no microcapsoles were dispread in the liquid innegnate (Comparative Example I is identical to Neutrogene Fine Fairness Mask with Vitanin Chie Immediate increase in white Immediate decrease in white Immediate increase in increase in machine increase in increase in increase in increase in increase in Microse in Immediate decrease in white Immediate of the Immed

Examples 2-5

Other examples of suitable liquid impregnates consistent with embodiments of the invention described herein include fixamples 2-5 listed below.

Trade Name	CTFA/INCI Nune & Activity	Function	% w/w Ex. 2	% wiw Ex. 3	% w/w Ex. 4	% w/w Ex. 5
Ascorbyl glacoside	Ascorby: glucoside	Asti- oxidant; depigmenting asont	ı	1	3	1
Dipotassium glycyrrizste	Dipotamium glycyrriente	Auti-imitent	0.65	0.05	0.05	0.05
Glycerin	Glyceria	Moisturiping agent	10	6	6	6
Disodium EDTA	Disodines EDTA	Cholsting agent	0.2	0.2	G.2	0.2
Sodium PCA	Sodium PCA	Moisturizing agent	0.1	0.1	6.1	0.1
Alfantois	Alleutoia	Anti-irritant	0,68	0.08	6.08	80.0
Potenza- Diezzbienne	Polyoxymethylene Melanios Uma	Skin Conditioner/ Openifier	2.5	5	Ø	5

	suul

		-continued				
Trade Name	CTFA/INCI Name & Activity	Festorios	% w/w Ex. 2	% w/w Ex. 3	% w/w Ex. 4	N who
	Microssprules with Denethicone Core					
Nacaamide	Nincimentide	Depigmentation agent	9.00	2.5	2.5	2.5
Firmonich	Fregrance	Fraguence	9,04	0.04	0.04	6.04
Fragrance						
Fair Beauty						
Hexylene	Hexylene glycol	Skin conditioning	1	ŧ	3	1
glycol		agent				
Keitroi	Xunthen Gues	Viscosity modifier	0.2	0.2	0.2	0.2
Mekkins M	Methylparaben	Preservative	0.2	0.2	0.2	0.2
Mokkins E	Ethylpszahen	Preservative	0.1	0.1	9.3	0.1
Sodium hydroxedo	Sodium bydroxide	PH adjuster	6,27	0.27	0.27	0.27
Demisoryl AGF	Acquistes copolymer	Opacifying agent	0	6	0	3
Deionized Water	Water	Vehicle	84.26	83.2	88.26	80.26

The liquid impregnates are made by adding the water to a suitable mixing vessel (the main vessel) and sequentially adding ascorbyl glucoside, dipotassium glycyrrizate, disodium EDTA, sodium PCA, allantoin, and niscinamide. In a separate vessel giyeerin, methylparaben, and ethyl paraben are sequentially added to the separate vessel and are heated to 80 degrees Celsius until fully dissolved. This second mixture is added to the main vessel. Xanthan gum and hexylene glycol is separately mixed until homogeneous to form a third mixture, after which this third mixture is added to the main vessel, Sodium hydroxide is added to the main vessel, followed by acrylates polymer, polyoxymethylene Melamine Urea Microcapsules (Examples 2, 3 and 5 only), and the fragrance. For examples 2, 3 and 5, about 24 grams of the impregnate 15 having the microcapsules suspended therein is added to a 203 mm×232 mm piece of 60 gsm, KP9560 (Sensho Shigyo K.K.) rayon/pulp non-woven fabric.

For Example 4, 1.2 grams of Polyoxymethylene Melamine Uren Microcapsules is added to the fabric, followed by 22.8 40 from the product to the skin.

grams of the liquid impregnate.

It is understood that while the invention has been described in conjunction with the detailed description thereof, that the foregoing description is intended to illustrate and not limit the scope of the invention, which is defined by the scope of the appended claims. Other aspects, advantages, and modifications are within the claims.

1. A product for application to the skin comprising; (i) a water-insoluble substrate; (i) a liquid impregnate having a 50 viscosity of less than about 10,000 cps, wherein said liquid impregnate is present in a weight ratio to the water-insoluble substrate that is greater than about 5%; (iii) a plurality of microcapsules comprising a microcapsule wall surrounding a liquid core, wherein the microcapsule wall comprises a as polyamine; and a skin lightening agent.

2. The product of claim 1, wherein the microcapsule wall is readily fractureable into one or more fragments upon pressure of less than about 1 psi.

- is present in a weight ratio to the water-insoluble substrate that is greater than about 50%,
- 4. The product of claim 1 wherein the polyamine comprises monomers of melamine, urea, and combinations thereof.
- The product of claim 1 wherein the microcapsules have 65 an average particle size that is in a range from about 100 micron to about 500 microns.

- 6. The product of claim 1 wherein the liquid core comprises esters thereof.
- 7. The product of claim 1 wherein the water-insoluble substrate comprises a non-woven, fibrous material.
- 8. A method of delivering a benefit agent to an expanse of skin, comprising: (a) contacting the skin with a product comprising a water-insoluble substrate, a liquid impregnate, a plurality of microcapsules comprising a microcapsule wall, the microcapsule wall comprising a polyamine, wherein the microcapsule wall surrounds a liquid core, and wherein the product further comprises a skin lightenting agent, wherein said contacting comprises laying said substrate in contact with said expense of skin for a period of time, and wherein said contact ruptures the microcapsule wall of said microcapsules; and (b) transferring an amount of said benefit agent
- 9. The method of claim 8, wherein said liquid impregnate is present in a weight ratio to the water-insoluble substrate that is greater than about 50%
- 10. A method of claim 8, wherein said benefit agent is comprised within said microcapsule.
- 11. A method of claim 8, wherein the microcapsule wall is readily fractureable into one or more fragments upon pressure of less than about 1 psi.
- 12 A method of treating an expanse of skin, comprising: (a) contacting the skin with a product according to claim 1.
- wherein said contacting comprises laving said substrate in contact with said expanse of skin for a period of time, and wherein said contact ruptures the microcapsule wall of said microcapsules; and
- (b) removing said product from said expanse of skin, thereby providing an increase in skin whitening.
- 13. A method of claim 12, wherein said liquid impregnate has a viscosity less than about 10000 cps 14. A method of claim 12, wherein said liquid impregnate
- 3. The product of claim 1, wherein said liquid impregnate 60 has a viscosity less than about 1000 cps.
 present in a weight ratio to the water-insoluble substrate 15. A method of claim 12, wherein said expanse of skin
 - includes the face 16. A method of claim 12, wherein said period of time is from about ten seconds to about one hour.

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